

Notice of Allowability

Application No.

09/771,008

Examiner

Michael B. Holmes

Applicant(s)

QUASS ET AL.

Art Unit

2121

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to June 07, 2001.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 24 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



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P.O. Box 1450, Alexandria, Virginia 22313-1450 – [WWW.USPTO.GOV](http://www.uspto.gov)

Examiner's Detailed Action

1. **Claims 1-15 are allowed.**

Reason(s) for allowance

2. The following is the Examiner's statement for the reasons for allowance:

The closest prior art *Chakrabarti et al.* (USPN 6,389,436 B1), and Type Classification of Semi-Structured Documents, Markus Tresch; Neal Palmer; Allen Luniewski; Proceedings of the 21st VLDB Conference, Zurich, Switzerland, (1995) does not teach or render obvious applicant's claimed invention. According, the primary reason for allowance is “ ... *a method for creating a database from information found on a plurality of web pages, said information comprising global regularities and local regularities, said global regularities being patterns that are expected to be found in all said web pages, and said local regularities being patterns which are not expected to be found in all said web pages ... c) tentatively identifying and tagging, in said candidate subset of the web pages, elements having said global regularities, by using said global classifier to obtain first tentative labels; d) training a local classifier using said first tentative labels, said local classifier using said local regularities for its classification; e) tentatively identifying elements having specific combinations of said global regularities and said local*

regularities using said global classifier and said local classifier to obtain second tentative labels for said elements of said candidate subset ... a method for learning and combining regularities of a first level and regularities of at least a second level and a third level for information extraction and classification, said first, second and third levels having a hierarchy from most global to most specific, said method comprising the steps of: a) beginning at the most global level, training a classifier at the selected level by initially providing descriptions of regularities at said selected level to a working database, said selected level regularities being patterns which made are to be found over a selected portion of a selected dataset corresponding to the selected level; thereafter b) identifying a candidate subset of each the selected dataset in which next more specific regularities may be found; thereafter c) tentatively identifying elements having said selected regularities in said candidate subset to obtain first tentative labels, said first tentative labels being useful for tagging like mutually similar information.”.

Correspondence Information

3. Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Michael B. Holmes** who may be reached via telephone at **(703) 308-6280**. The examiner can normally be reached Monday through Friday between 8:00 A.M. and 5:00 P.M. est. If you need to contact the Examiner, regarding After Final concerns, please send it to **(703) 746-7238**. If you need to send an Official facsimile transmission, please send it to **(703) 746-7240**. If you need to send a Non-Official or Draft facsimile transmission, please send it to **(703) 746-7239**.

If attempts to reach the examiner by telephone are unsuccessful, the **Examiner's**

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Supervisor, Anthony Knight, may be reached at **(703) 308-3179**.

Any response to this office action should be mailed too:

Director of Patents and Trademarks Washington, D.C. 20231, or Hand-delivered

responses should be delivered to the **Receptionist, located on the fourth floor of**

Crystal Park II, 2121 Crystal Drive Arlington, Virginia.

Michael B. Holmes

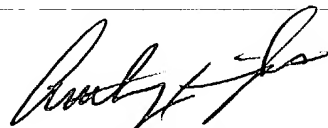
Patent Examiner

Artificial Intelligence

Art Unit 2121

United States Department of Commerce

Patent & Trademark Office



Anthony Knight
Supervisory Patent Examiner
Group 3600